

```
mysql> SELECT * FROM user WHERE age BETWEEN 20 AND 30;
```

id	name	sex	age	phone
1	John Doe	Male	25	123-456-7890
3	Bob Johnson	Male	22	555-123-4567

```
2 rows in set (0.00 sec)
```

```
mysql> █
```

```
mysql> CREATE DATABASE my_database;  
Query OK, 1 row affected (0.00 sec)
```

```
mysql> USE my_database;  
Database changed
```

```
mysql>
```

```
[mysql>
```

```
[mysql> CREATE TABLE user (  
->     id INT AUTO_INCREMENT PRIMARY KEY,  
->     name VARCHAR(100) NOT NULL,  
->     sex ENUM('Male', 'Female') NOT NULL,  
->     age INT NOT NULL,  
->     phone VARCHAR(15) NOT NULL  
-> );
```

```
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> INSERT INTO user (name, sex, age, phone) VALUES  
-> ('John Doe', 'Male', 25, '123-456-7890'),  
-> ('Jane Smith', 'Female', 31, '987-654-3210'),  
-> ('Bob Johnson', 'Male', 22, '555-123-4567');
```

```
Query OK, 3 rows affected (0.01 sec)
```

```
Records: 3  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM user;
```

id	name	sex	age	phone
1	John Doe	Male	25	123-456-7890
2	Jane Smith	Female	31	987-654-3210
3	Bob Johnson	Male	22	555-123-4567

```
3 rows in set (0.00 sec)
```

```
mysql> █
```

```
mysql> INSERT INTO user (name, sex, age, phone) VALUES
-> ('应妮臻', 'Female', 19, '444-444-4444'),
-> ('应小华', 'Male', 28, '123-456-7890'),
-> ('应伟', 'Female', 25, '987-654-3210'),
-> ('应志强', 'Male', 30, '555-123-4567');
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM user;
```

id	name	sex	age	phone
1	John Doe	Male	25	123-456-7890
2	Jane Smith	Female	31	987-654-3210
3	Bob Johnson	Male	22	555-123-4567
4	应妮臻	Female	19	444-444-4444
5	应小华	Male	28	123-456-7890
6	应伟	Female	25	987-654-3210
7	应志强	Male	30	555-123-4567

```
7 rows in set (0.00 sec)
```

```
mysql>
```

```
[mysql>
```

```
mysql>
[mysql> SELECT *
      -> FROM user
      -> WHERE age BETWEEN 20 AND 30 AND name LIKE '应%'
      -> ORDER BY age DESC;
```

id	name	sex	age	phone
7	应志强	Male	30	555-123-4567
5	应小华	Male	28	123-456-7890
6	应伟	Female	25	987-654-3210

3 rows in set (0.01 sec)

```
mysql>
[mysql> █
```



```
mysql> -- 创建 team 表
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> CREATE TABLE team (
->     id INT AUTO_INCREMENT PRIMARY KEY,
->     teamName VARCHAR(255) NOT NULL
-> );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql>
mysql> -- 创建 score 表
Query OK, 0 rows affected (0.00 sec)
```

```
mysql> CREATE TABLE score (
->     id INT AUTO_INCREMENT PRIMARY KEY,
->     teamid INT,
->     userid INT,
->     score INT,
->     FOREIGN KEY (teamid) REFERENCES team(id),
->     FOREIGN KEY (userid) REFERENCES user(id)
-> );
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> █
```

```
mysql> SET @team_id = (SELECT id FROM team WHERE teamName = 'ECNU');
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> INSERT INTO score (teamid, userid, score) VALUES
-> (@team_id, 1, 85),  -- 应妮臻
-> (@team_id, 2, 90),  -- John Doe
-> (@team_id, 3, 88),  -- Jane Smith
-> (@team_id, 4, 75);  -- Bob Johnson
Query OK, 4 rows affected (0.00 sec)
Records: 4  Duplicates: 0  Warnings: 0
```

```
mysql> FROM user u
-> JOIN score s ON u.id = s.userid
-> JOIN team t ON s.teamid = t.id
-> WHERE t.teamName = 'ECNU' AND u.age < 20;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'FROM user u
JOIN score s ON u.id = s.userid
JOIN team t ON s.teamid = t.id
WHERE' at line 1
```

```
mysql> SELECT u.name, u.age
-> FROM user u
-> JOIN score s ON u.id = s.userid
-> JOIN team t ON s.teamid = t.id
-> WHERE t.teamName = 'ECNU' AND u.age < 20;
```

```
+-----+-----+
| name   | age |
+-----+-----+
| 应妮臻 | 19  |
+-----+-----+
1 row in set (0.01 sec)
```

```
mysql> █
```

```
mysql> SELECT SUM(COALESCE(s.score, 0)) AS total_score  
-> FROM score s  
-> JOIN team t ON s.teamid = t.id  
-> WHERE t.teamName = 'ECNU';
```

total_score
338

1 row in set (0.00 sec)

```
[mysql>
```



```
mysql> DELETE FROM user WHERE name = '应妮臻';
Query OK, 1 row affected (0.00 sec)
```

```
mysql> SELECT * FROM user;
```

id	name	sex	age	phone
8	John Doe	Male	25	123-456-7890
9	Jane Smith	Female	31	987-654-3210
10	Bob Johnson	Male	22	555-123-4567
12	应小华	Male	28	123-456-7890
13	应伟	Female	25	987-654-3210
14	应志强	Male	30	555-123-4567

```
6 rows in set (0.01 sec)
```

```
mysql> █
```